

**AMENDMENTS TO THE CLAIMS**

1. (Currently Amended) A transformer comprising a primary winding, a secondary winding and a rectifier comprising a diode for rectifying voltage induced in the secondary winding, wherein the secondary winding comprises ~~at least~~ two coils, each coil including a rectifier diode as an integrated part of the coil, wherein the diode of each coil comprises a plurality of diodes connected in parallel to each other and wherein the plurality of diodes of one secondary coil are arranged in opposite direction to the diodes of the other secondary coil.

2. (Currently Amended) The transformer according to claim 1, wherein each of the ~~at least~~ two secondary coils is a single turn winding.

3. (Cancelled)

4. (Currently Amended) The transformer according to claim ~~[[3]]~~ 1, wherein each of the ~~at least~~ two coils comprises a conductive strip~~[[s]]~~ on two ~~[[a]]~~ printed circuit boards, and a connector for electrically connecting the conductive strips of each of the ~~at least~~ two secondary coils.

5. (Original) The transformer according to claim 1, wherein the transformer is operable at high voltage.

6. (Cancelled)

7. (Currently Amended) The ~~method~~ transformer according to claim ~~[[6]]~~ 12, wherein the magnetron is a pulsed magnetron.

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8. (Cancelled)

9. (Cancelled)

10. (Cancelled)

11. (Cancelled)

12. (New) The transformer according to claim 1, adapted for supplying power to a magnetron heater.